

United States Patent and Trademark Office

mg

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,804	9/826,804 04/06/2001		Masaomi Takagi	040679/1246	6447
22428	7590	02/12/2004		EXAM	INER
FOLEY AN SUITE 500	ND LARI	DNER	CULBRETH, ERIC D		
3000 K STREET NW				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007				3616	14
				DATE MAILED: 02/12/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	A	Applicant(s)
	Application No.	
Office Action Summany	09/826,804	TAKAGI ET AL.
Office Action Summary	Examiner	Art Unit
7. 8844 100 0475 444	Eric D Culbreth	3616
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may y within the statutory minimum of the will expire SIX (6) Moon, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 12 Ja	anuary 2004.	
	action is non-final.	
3) Since this application is in condition for alloware closed in accordance with the practice under E	•	•
Disposition of Claims		
4) Claim(s) 1-4,6-17 and 23-29 is/are pending in 4a) Of the above claim(s) 1-4,6-8 and 17 is/are 5) Claim(s) is/are allowed. 6) Claim(s) 9-16 and 23-29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	withdrawn from conside	eration.
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on 1/12/04 is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected drawing(s) be held in abey tion is required if the drawin	rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	es have been received. Es have been received in rity documents have been (PCT Rule 17.2(a)).	Application No en received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152) Part of Paper No./Mail Date 14

Application/Control Number: 09/826,804 Page 2

Art Unit: 3616

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 13 and 29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. These claims refer to either a cylindrical surface or curved portions, and depend from claim 9, which recites the finished product (a pair of cross members and a pair of side members). There is no disclosure in the original specification of a finished vehiclar member construction with side and cross members that includes curved portions or a cylindrical surface (all the figures with with curved portions or cylindrical outer surfaces refer to the pipe before hydroforming or to related art).
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 23-26 and 28-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 3616

Claims 23-24 are inaccurate in reciting the thin and thick wall portions as convex and concave inner and outer walls (the wall portions do not include the curvature at the intersection of the wall portions and the adjacent walls). Claim 24, in reciting the thick wall portion having a convex outer and inner wall, is apparently drawn to Figure 6(d). However, this contradicts claim 9 from which claim 24 depends, which recites the thin wall portion as free from inscribed mating with the thick wall portion (in Figure 6(d), the thick wall portion connects with the thin wall portion). Similarly, regarding claims 25 and 28, there is no disclosed embodiment with thin and thick wall portions that are free from mating yet has a plurality of thin and thick wall portions. Regarding claims 26 and 29, there is no embodiment that has thick and thin portions free of inscribed mating yet has four thin wall portions and four thick wall portions.

Claim Rejections - 35 USC § 103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 9-16 23-29 as best understood are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent 61-291272 in view of Japanese Patent 6-99870 (both of record).

Japanese '272 discloses hollow side members 1, 2 with thick and thin wall portions in Figure 5 and cross members 3, 3, 3, 3 interconnecting the side members. However, Japanese '272 does not clearly disclose monolithic thick and thin wall portions (as the dictionary definition of "monolithic" includes "solid" and "uniform", the thick and thin portions welded

Application/Control Number: 09/826,804

Art Unit: 3616

together in Japanese '272's Figure 5 could be considered to make a solid and uniform or monolithic structure). Japanese '272 also does not teach the thin wall portion free from an inscribed mating with the thick wall portion. Japanese '870 discloses in Figure 4 a monolithic side wall 5 with thick and thin portions. Japanese '870's thick wall portion o is free from inscribed mating with the thin wall portion I in Figure 4, the portions separated by upper and lower walls of intermediate thickness much as applicant's Figures 6(a)-6(c). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Japanese '272 to include monolithic thick and thin portion side walls free from inscribed mating as taught by Japanese '870 in order to extrude the side frames (English Abstract) and hence simplify production (claim 9). Applicant's arguments on pages 10-11 of the 1/12/04 amendment that it would be simpler to weld the two C-shaped members and that the C-shaped members may already be extruded are not persuasive because extruding the entire hollow section as one piece would simplify the frame members at least in that welding would now not be required (i.e., one less step in production). As to the argument that working with extruded aluminum is complicated, as claim 9 does not require aluminum, and as the combination does not necessarily include all the features of each reference (i.e., a combination of references is not a bodily incorporation of parts), the combination meets claim 9. In the claims where aluminum or aluminum alloy is claimed, as applicant has noted above, Japanese '272's frame may already have extruded parts; hence it would still be a simplification to extrude the entire side member because welding at least is eliminated. Regarding the arguments on page 12 that Japanese '272 is not monolithic, as broadly recited the reference could be considered monolithic as explained above, and at any rate in the combination Japanese '870 clearly teaches a monolithic structure as Art Unit: 3616

claimed. The argument on page 12 of the 1/12/04 amendment that the modification would change the operation of the references is not persuasive, as extruding a monolithic frame member (Japanese '870) as opposed to welding two pieces together to form the frame member (Japanese '272) results either way in a rigid frame member.

In the combination Japanese '870 teaches in the abstract aluminum extruded material as well as bent side frames 5 in Figure 2 with longitudinal thick and thin wall portions in Figure 4 (claims 10-12).

As noted above, claim 13 is really drawn to the shape of the pipe before hydroforming as noted above. The shape of the pipe before the final product is not patentably distinguishing in a claim drawn to the final product (MPEP 2113).

Regarding claim 14, in Japanese '272 bracket 7 is attached to the outer thick wall 11 for linking the side member and a wheel as functionally recited (i.e., "for linking a side member and a wheel"). The manner in which the walls are formed (claim 15) is not patentably distinguishing in an article claim and the dies used for making the member (claim 16) are not patentably distinguishing, since the preamble of the claim(s) defined the invention as a vehicular member construction.

Regarding claim 23, in the combination Japanese '870's thick and thin wall portions o, i have convex outer wall and concave inner walls inasmuch applicant's invention at the upper and lower corners in Figure 4. As the recitations of convex and concave outer and inner walls are indefinite, the combination meets the positive limitations of claim 24. Similarly, as claims 25-26 and 28-29 are inaccurate to the invention, the combination meets the positive limitations of the

Application/Control Number: 09/826,804

Art Unit: 3616

claim. As functionally and broadly recited, the inner wall portion of Japanese '870 in the combination is free of a circumscribed mating with the thick wall portion (claim 27).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric D Culbreth whose telephone number is 703/308-0360. The examiner can normally be reached on Monday-Thursday, 9:30-7:00 alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on 703-308-2089. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Eric D Culbreth **Primary Examiner**

Eie Callreth 2/9/04

Page 6

Art Unit 3616

ec